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1 <u>Securing distributed storage: challenges, techniques, and systems</u>
Vishal Kher, Yongdae Kim
November 2005 StorageSS '05: Proceedings of the 2005 ACM workshop on Storage security and survivability
Publisher: ACM
Full text available: 📄 Pdf (294.61 KB) Additional Information: <u>full citation, abstract, references, index terms</u>

Bibliometrics: Downloads (6 Weeks): 39, Downloads (12 Months): 384, Citation Count: 4

The rapid increase of sensitive data and the growing number of government regulations that require longterm data retention and protection have forced enterprises to pay serious attention to storage security. In this paper, we discuss important security ...

Keywords: authorization, confidentiality, integrity, intrusion detection, privacy

2 <u>Post-release information privacy protection: A framework and next-generation privacy-enhanced operating system</u>
Yanjun Zuo, Timothy O'Keefe
November 2007 Information Systems Frontiers, Volume 9 Issue 5
Publisher: Kluwer Academic Publishers
Additional Information: <u>full citation, abstract, index terms</u>

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

In today's digital world, privacy issues have received widespread public attention. Current research on information privacy protection focuses on release control and subject identity obscurity. Little work has been done, however, to prevent a piece of ...

Keywords: Information post-release control, Information privacy protection, Privacy violation detection, Privacy-enhanced operating system

3 <u>Key-assignment strategies for CPPM</u>
André Adelsbach, Jörg Schwenk
September 2004 MM&Sec '04: Proceedings of the 2004 workshop on Multimedia and security
Publisher: ACM
Full text available: 📄 Pdf (454.53 KB) Additional Information: <u>full citation, abstract, references, index terms</u>

Bibliometrics: Downloads (6 Weeks): 4,   Downloads (12 Months): 29,   Citation Count: 0

CSS, the first system to protect multimedia content on the new DVD medium failed badly, because both its encryption algorithm and its key management could easily be broken. A new industry initiative, the 4C Entity, LLC (founded by IBM, Intel, Matsushita ...

Keywords: CPPM, content protection, device revocation, key-assignment, key-management

4   A Framework for Evaluating Storage System Security
Erik Riedel, Mahesh Kallahalla, Ram Swaminathan
January 2002 FAST '02: Proceedings of the 1st USENIX Conference on File and Storage
           Technologies
Publisher: USENIX Association
Additional Information: full citation, references, cited by

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 3

5   Key management in an encrypting file system
Matt Blaze
June 1994 USTC'94: Proceedings of the USENIX Summer 1994 Technical Conference
           on USENIX Summer 1994 Technical Conference - Volume 1,   Volume 1
Publisher: USENIX Association
Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 2

As distributed computing systems grow in size, complexity and variety of application, the problem of protecting sensitive data from unauthorized disclosure and tampering becomes increasingly important. Cryptographic techniques can play an important role ...

6   Architecture for Protecting Critical Secrets in Microprocessors
Ruby B. Lee, Peter C. S. Kwan, John P. McGregor, Jeffrey Dwoskin, Zhenghong Wang
June 2005 ISCA '05: Proceedings of the 32nd annual international symposium on Computer
           Architecture
Publisher: IEEE Computer Society
Full text available: Pdf (143.62 KB)   Additional Information: full citation, abstract, references, cited by, index
                                                        terms

Bibliometrics: Downloads (6 Weeks): 17,   Downloads (12 Months): 158,   Citation Count: 6

We propose "secret-protected (SP)" architecture to enable secure and convenient protection of critical secrets for a given user in an on-line environment. Keys are examples of critical secrets, and key protection and management is a fundamental problem ...

7   Architecture for Protecting Critical Secrets in Microprocessors
Ruby B. Lee, Peter C. S. Kwan, John P. McGregor, Jeffrey Dwoskin, Zhenghong Wang
May 2005 ACM SIGARCH Computer Architecture News,   Volume 33 Issue 2
Publisher: ACM

Full text available: Pdf (143.62 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 158, Citation Count: 6

We propose "secret-protected (SP)" architecture to enable secure and convenient protection of critical secrets for a given user in an on-line environment. Keys are examples of critical secrets, and key protection and management is a fundamental problem ...

8 Security on FPGAs: State-of-the-art implementations and attacks

Thomas Wollinger, Jorge Guajardo, Christof Paar
August 2004 ACM Transactions on Embedded Computing Systems (TECS), Volume 3 Issue 3
Publisher: ACM

Full text available: Pdf (296.79 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 36, Downloads (12 Months): 437, Citation Count: 4

In the last decade, it has become apparent that embedded systems are integral parts of our every day lives. The wireless nature of many embedded applications as well as their omnipresence has made the need for security and privacy preserving mechanisms ...

Keywords: Cryptography, FPGA, attacks, cryptographic applications, reconfigurable hardware, reverse engineering, security

9 DotGrid: a.NET-based cross-platform software for desktop grids

Alireza Poshtkohi, Ali Haj Abutalebi, Shaahin Hessabi
August 2007 International Journal of Web and Grid Services, Volume 3 Issue 3
Publisher: Inderscience Publishers

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 1

Grid infrastructures that have provided wide integrated use of resources are becoming the de facto computing platform for solving large-scale problems in science, engineering and commerce. In this evolution, desktop grid technologies allow the grid ...

Keywords: cross-platform grid software, desktop grids, desktop middleware, grid computing, grid infrastructure

10 Code protection for resource-constrained embedded devices

H. Saputra, G. Chen, R. Brooks, N. Vijaykrishnan, M. Kandemir, M. J. Irwin
June 2004 LCTES '04: Proceedings of the 2004 ACM SIGPLAN/SIGBED conference on Languages, compilers, and tools for embedded systems
Publisher: ACM

Full text available: Pdf (290.95 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 52, Citation Count: 0

While the machine neutral Java bytecodes are attractive for code distribution in the highly heterogeneous embedded domain, the well-documented and standardized features also make it difficult to protect these codes. In fact, there are several tools to ...

Keywords: Java security, cryptography, java byte code, mono-alphabetic, poly-alphabetic, substitution

11 Code protection for resource-constrained embedded devices
H. Saputra, G. Chen, R. Brooks, N. Vijaykrishnan, M. Kandemir, M. J. Irwin
July 2004 ACM SIGPLAN Notices, Volume 39 Issue 7
Publisher: ACM
Full text available: Pdf (290.95 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 52, Citation Count: 0

While the machine neutral Java bytecodes are attractive for code distribution in the highly heterogeneous embedded domain, the well-documented and standardized features also make it difficult to protect these codes. In fact, there are several tools to ...

Keywords: Java security, cryptography, java byte code, mono-alphabetic, poly-alphabetic, substitution

12 Countering code-injection attacks with instruction-set randomization
Gaurav S. Kc, Angelos D. Keromytis, Vassilis Prevelakis
October 2003 CCS '03: Proceedings of the 10th ACM conference on Computer and communications security
Publisher: ACM
Full text available: Pdf (146.35 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 186, Citation Count: 39

We describe a new, general approach for safeguarding systems against *any* type of code-injection attack. We apply Kerckhoff's principle, by creating process-specific randomized instruction sets (*e.g.*, machine instructions) of the system ...

Keywords: buffer overflows, emulators, interpreters

13 An analysis of how antivirus methodologies are utilized in protecting computers from malicious code
Daniel J. Sanok, Jr
September 2005 InfoSecCD '05: Proceedings of the 2nd annual conference on Information security curriculum development
Publisher: ACM
Full text available: Pdf (68.88 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 307, Citation Count: 0

Antivirus software utilizes several methodologies in scanning, detecting, and protecting computers and systems from viruses. As understanding increases about the vectors malicious code uses to attack and how antivirus software protects computer systems ...

Keywords: antivirus, encryption, scanning, security

14 Cell Broadband Engine™ processor security architecture and digital content protection
Kanna Shimizu, Stefan Nusser, Wilfred Plouffe, Vladimir Zbarsky, Masaharu Sakamoto, Masana Murase
October 2006 MCPS '06: Proceedings of the 4th ACM international workshop on Contents protection and security

Publisher: ACM

Full text available: 🔲 Pdf (260.80 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 8,   Downloads (12 Months): 106,   Citation Count: 0

Current content protection technologies such as those based on broadcast encryption and public-key encryption focus on the distribution and control of content. Although these technologies are effective and mathematically sound, they are susceptible to ...

Keywords: content protection, processor architecture

15 Secure and practical defense against code-injection attacks using software dynamic translation
Wei Hu, Jason Hiser, Dan Williams, Adrian Filipi, Jack W. Davidson, David Evans, John C. Knight, Anh Nguyen-Tuong, Jonathan Rowanhill
June 2006 VEE '06: Proceedings of the 2nd international conference on Virtual execution environments
Publisher: ACM

Full text available: 🔲 Pdf (270.13 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 11,   Downloads (12 Months): 138,   Citation Count: 2

One of the most common forms of security attacks involves exploiting a vulnerability to inject malicious code into an executing application and then cause the injected code to be executed. A theoretically strong approach to defending against any type ...

Keywords: software dynamic translation, virtual execution

16 The packet vault: secure storage of network data
C. J. Antonelli, M. Undy, P. Honeyman
April 1999 ID'99: Proceedings of the 1st conference on Workshop on Intrusion Detection and Network Monitoring - Volume 1, Volume 1
Publisher: USENIX Association

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Citation Count: 0

This paper describes the packet vault, a cryptographically secured archiver of network packet data. The vault captures network packets, encrypts them, and writes them to long-term CD-ROM storage for later analysis and for evidentiary purposes. The cryptographic ...

17 Using Address Independent Seed Encryption and Bonsai Merkle Trees to Make Secure Processors OS- and Performance-Friendly
Brian Rogers, Siddhartha Chhabra, Milos Prvulovic, Yan Solihin
December 2007 MICRO '07: Proceedings of the 40th Annual IEEE/ACM International Symposium on Microarchitecture
Publisher: IEEE Computer Society

Full text available: 🔲 Pdf (954.09 KB)   Additional Information: full citation, abstract, index terms

Bibliometrics: Downloads (6 Weeks): 1,   Downloads (12 Months): 49,   Citation Count: 0

In today's digital world, computer security issues have become increasingly important. In particular, researchers have proposed designs for secure processors which utilize

hardware-based mem- ory encryption and integrity verification to protect the privacy ...

18 Using secure coprocessors for privacy preserving collaborative data mining and analysis

Bishwaranjan Bhattacharjee, Naoki Abe, Kenneth Goldman, Bianca Zadrozny, Vamsavardhana R. Chillakuru, Marysabel del Carpio, Chid Apte

June 2006 DaMoN '06: Proceedings of the 2nd international workshop on Data management on new hardware

Publisher: ACM

Full text available: Pdf (248.64 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 119, Citation Count: 0

Secure coprocessors have traditionally been used as a keystone of a security subsystem, eliminating the need to protect the rest of the subsystem with physical security measures. With technological advances and hardware miniaturization they have become ...

Keywords: collaboration, data mining, federation, privacy

19 Software architecture exploration for high-performance security processing on a multiprocessor mobile SoC

Divya Arora, Anand Raghunathan, Srivaths Ravi, Murugan Sankaradass, Niraj K. Jha, Srimat T. Chakradhar

July 2006 DAC '06: Proceedings of the 43rd annual conference on Design automation

Publisher: ACM

Full text available: Pdf (680.39 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 113, Citation Count: 1

We present a systematic methodology for exploring the security processing software architecture for a commercial heterogeneous multiprocessor system-on-chip (SoC) for mobile devices. The SoC contains multiple host processors executing applications and ...

Keywords: computation offloading, software partitioning

20 Ensuring secure program execution in multiprocessor embedded systems: a case study

Krutartha Patel, Sridevan Parameswaran, Seng Lin Shee

September 2007 CODES+ISSS '07: Proceedings of the 5th IEEE/ACM international conference on Hardware/software codesign and system synthesis

Publisher: ACM

Full text available: Pdf (292.29 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 135, Citation Count: 0

Multiprocessor SoCs are increasingly deployed in embedded systems with little or no security features built in. Code Injection attacks areone of the most commonly encountered security threats. Most solutions to this problem in the single processor domain ...

Keywords: code injection attacks, embedded system processors, multiprocessors, security, tensilica

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